

claim with respect to the original claims are listed in the following REMARK. From it, Examiner can understand the present invention easily.

LIST OF CLAIMS

Claims 1 – 5 (Cancelled)

Claim 6. (New) A piston rod rotary driving device of a screw nail gun; the driving device being installed in a gun head of the screw nail gun;

at least one pneumatic motor installed in one end portion of the gun head; the at least one pneumatic motor being capable of being driven by high pressure air,

a cylinder capable of loading high pressure air;

a piston rod in the cylinder, one end of the piston rod having a piston; the piston being actuated by the high pressure air so as to trigger a screw nail to move linearly; another end of the piston rod being driven by the pneumatic motor to rotate the screw nail;

a spindle of the pneumatic motor formed with a rod groove for receiving the piston rod; and the spindle of the pneumatic motor driving an output disk to rotate; the spindle being connected to the piston rod; the piston rod being capable of receiving a nail locking rod for driving a nail;

a polygonal supporting hole being formed at a center portion of the output disk; the piston rod being a polygonal rod so that the piston rod can be coupled to the supporting holes to move therein; and the output disk drives the piston to rotate;

wherein a planet gear set is installed between the spindle of the pneumatic motor and the output disk for transferring rotation power;

wherein the planet gear set is formed by a driving gear and a plurality of driven gears; the driving gear is firmly secured to a distal end

of the spindle of the pneumatic motor; and the driven gears are pivotally installed on the disk surface of the output disk; the plurality of driven gears are arranged around the driving gear and are driven by the driving gear so as to further drive the output disk to rotate;

wherein the output disk is pivotally installed to a bearing seat;

wherein a bush with a shape identical to that of the supporting hole is installed in the supporting hole so as to install the piston rod in the bush; the piston rod is movable in the bush.